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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--------------------------------|--|----------------------|---------------------|------------------|--|
| 10/552,183 | 10/06/2005 | Masahiro Imaizumi | 576P081 | 6229 | |
| | 42754 7590 07/29/2008 Nields & Lemack | | | EXAMINER | |
| 176 E. Main Street | | | WU, SHEAN CHIU | | |
| Suite #5 Westboro, MA 01581 | | | ART UNIT | PAPER NUMBER | |
| | | | 1795 | | |
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| | | | 07/29/2008 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | |
|---|---|--|--|--|--|
| | 10/552,183 | IMAIZUMI ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Shean C. Wu | 1795 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | l. lely filed the mailing date of this communication. (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on <u>06 Oc</u> | action is non-final. ace except for formal matters, pro | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1 and 3-25 is/are pending in the application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objected to by the Examiner Replacement drawing sheet(s) including the correction is objected to by the Examiner | vn from consideration. relection requirement. r. repted or b) □ objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected to by the legan contact of the drawing(s) is objected to by the legan contact of the drawing(s) is objected to by the legan contact of the drawing(s) is objected to by the legan contact of the drawing(s) is objected to by the legan contact of the drawing(s) is objected to by the legan contact of the drawing(s) is objected to by the legan contact of the legan cont | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). | | | |
| ,— | | | | | |
| Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/21/05, 4/30, 5/18/07 & 2/28/08. | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | te | | | |



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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an
- patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3-6, 8-18 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Asano et al. (US 2006/0004140).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

3. Claims 1-4, 12-13, 18 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Kitamura et al. (US 2002/0176046).

With respect to claims 1-4, 18 and 24, the reference discloses a sealant composition for a plastic liquid crystal display cell that liquid crystal display cell having

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high reliability under a high temperature and high humidity environment. The sealant composition for a plastic liquid crystal display cell of the invention contains the following components (1) to (6):

- (1) 15 to 84% by weight of a liquid **epoxy resin** having from 1.7 to 6 in weight average of epoxy groups in one molecule,
- (2A) 10 to 50% by weight of a <u>curing agent</u> containing one or a mixture of two or more selected from (2A-1) a tetrafunctional mercapto compound or (2A-2) a modified polymercapto derivative,
- (3) 0.01 to 15% by weight of a curing accelerator,
- (4) 5 to 50% by weight of an <u>inorganic filler</u> (also, see section [0236] for the size of filler),
- (5) 0.1 to 5% by weight of a silane coupling agent, and
- (6) 1 to 25% by weight of rubbery polymer fine particles having an average particle diameter of primary particles of from 0.01 to 5 μm.

The epoxy resin (1) is a mixed composition of (1-1) an aliphatic and/or alicyclic epoxy resin and (1-2) an aromatic epoxy resin, the aliphatic and/or alicyclic epoxy resin (1-1) is one or a mixture of two or more selected from higher alcohol monoglycidyl ether, polyoxyalkylene glycol diglycidyl ether, 1,6-hexanediol diglycidyl ether, neopentyl glycol diglycidyl ether and glycerin triglycidyl ether, and the aromatic epoxy resin (1-2) is one or a mixture of two or more selected from the group consisting of a bisphenol A

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type **epoxy resin** or an alkylene oxide adduct type **epoxy resin** thereof, a bisphenol F type **epoxy resin** or an alkylene oxide adduct type **epoxy resin** thereof, <u>a bisphenol S</u> type **epoxy resin** (n=0 of the present formula (1), see the present abstract), and a bisphenol AD type **epoxy resin** ([0045], [0124], [0131]-[0159], [0164]-[0168], [0173]-[0174] and [0181]).

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With respect to claim 12, the reference further teaches the ratio of epoxy resin to curing agent in sections [0083]-[0084].

With respect to claim 13, the curable resin of methylacrylate is disclosed in [0418] and the liquid crystal scalant composition include a composition containing a poly(meth)acrylate compound and a photoinitiator ([0362]).

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1, 3-9, 13-18 and 24 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-14 of copending Application No. 10/532,705. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claimed inventions are encompassed by the claims of copending application, which epoxy resin of the present formula (1) is well known and used for liquid crystal devices (see pages 3-5 of '705).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Allowable Subject Matter

- 6. Claims 7, 19-23 and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The examiner can normally be reached on 10:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kelly Cynthia can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shean C Wu/ Primary Examiner, Art Unit 1795

scw